



PATENTS

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Shigeto Inui

Examiner: unassigned

Serial No: 09/778,258

Art Unit: unassigned

Filed: February 7, 2001

Docket: 14309

For: DIVIDER

Dated: May 10, 2001

Assistant Commissioner for Patents
United States Patent and Trademark Office
Washington, D.C. 20231

PETITION

Sir:

In reply to the Notice to File Corrected Application Papers, Applicant herewith submits the required page 13 of the specification, noting that this does not introduce new subject matter. According to our files, page 13 was deposited together with the application as filed.

CERTIFICATE OF MAILING UNDER 37 C.F.R. §1.8(a)

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Assistant Commissioner for Patents, Washington, D.C. 20231 on May 10, 2001

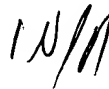
Dated: May 10, 2001


Michelle Mustafa

A Declaration of Janet Grossman, docketing clerk, and Anna Scheblein, legal secretary, at Scully, Scott, Murphy & Presser is enclosed together with a copy of our original transmittal letter, postcard receipt and New Patent Application Checklist indicating that 22 pages of specification, including claims and abstract were deposited on February 7, 2001.

Acceptance of page 13 is respectfully solicited. The required Petition Fee in the amount of \$130.00 is enclosed. Any additional fees should be charged to deposit account 19-1013 SSMP.

Respectfully submitted,



Paul J. Esatto, Jr.
Registration No.: 30,749

Scully, Scott, Murphy & Presser
400 Garden City Plaza
Garden City, New York 11530
(516) 742-4343
PJE:ae



of detailed configurations of a repetitive operating section employed in the divider of Fig. 1;

Fig. 3 is a graph showing a P-D plot expressing a division algorithm used in the divider of the embodiment of the present invention;

Fig. 4 is a schematic block diagram showing one example of configurations of a conventional divider;

Fig. 5 is a schematic circuit diagram showing one of examples of detailed configurations of a repetitive operating section employed in the conventional divider;

Fig. 6 is a graph showing a P-D plot expressing a conventional division algorithm; and

Fig. 7 is a graph showing another P-D plot explaining the conventional division algorithm.

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENTS

Best modes of carrying out the present invention will be described in further detail using various embodiments with reference to the accompanying drawings.

Embodiment

Figure 1 is a schematic block diagram showing configurations of a divider according to an embodiment of the present invention. It is assumed in the embodiment that a radix for operations is 4, a digit set is $\{-3, -2, -1, 0, 1, 2, 3\}$, both a divisor and a dividend are decimals with a bit length of n and a generalized SRT division algorithm is used for operations. The divider of the

PATENT OFFICE DATE STAMP () KNOWLEDGE RECEIPT OF:



1. New Utility Patent Application Transmittal (in duplicate)
2. New Patent Application (22 pages including claims & Abstract)
3. 7 sheets of formal drawings
4. Assignment Recordal Sheet in duplicate; Orig. Assign.; Ck.\$40.00
5. Declaration and Power of Attorney
6. Claim of Priority (in due course)
7. Certificate of Express Mail #EL739620715US

Applicant: Shigeto INUI

For: DIVIDER

Docket: 14309

Dated: Feb.7 2001

PJE:ahs

PATENT OFFICE DATE STAMP WILL ACKNOWLEDGE RECEIPT OF:

1. New Utility Patent Application Transmittal (in duplicate)
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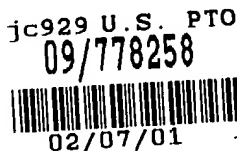
Applicant: Shigeto INUI

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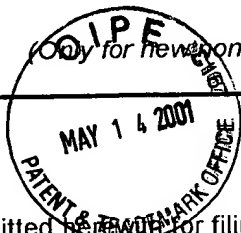
Dated: Feb.7 2001

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UTILITY PATENT APPLICATION TRANSMITTAL
(Large Entity)

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Docket No.
14309Total Pages in this Submission
4**TO THE ASSISTANT COMMISSIONER FOR PATENTS**Box Patent Application
Washington, D.C. 20231

Transmitted herewith for filing under 35 U.S.C. 111(a) and 37 C.F.R. 1.53(b) is a new utility patent application for an invention entitled:

DIVIDER

and invented by:

Shigeto INUI

If a **CONTINUATION APPLICATION**, check appropriate box and supply the requisite information:☐ Continuation ☐ Divisional ☐ Continuation-in-part (CIP) of prior application No.: _____

Which is a:

☐ Continuation ☐ Divisional ☐ Continuation-in-part (CIP) of prior application No.: _____

Which is a:

☐ Continuation ☐ Divisional ☐ Continuation-in-part (CIP) of prior application No.: _____

Enclosed are:

Application Elements

1. ☒ Filing fee as calculated and transmitted as described below
2. ☒ Specification having 22 pages and including the following:
 - a. ☒ Descriptive Title of the Invention
 - b. ☐ Cross References to Related Applications (if applicable)
 - c. ☐ Statement Regarding Federally-sponsored Research/Development (if applicable)
 - d. ☐ Reference to Microfiche Appendix (if applicable)
 - e. ☒ Background of the Invention
 - f. ☒ Brief Summary of the Invention
 - g. ☒ Brief Description of the Drawings (if drawings filed)
 - h. ☒ Detailed Description
 - i. ☒ Claim(s) as Classified Below
 - j. ☒ Abstract of the Disclosure

UTILITY PATENT APPLICATION TRANSMITTAL (Large Entity)

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Docket No.
14309

Total Pages in this Submission
4

Application Elements (Continued)

3. ☒ Drawing(s) (when necessary as prescribed by 35 USC 113)
- a. ☒ Formal Number of Sheets 7
- b. ☐ Informal Number of Sheets _____
4. ☒ Oath or Declaration
- a. ☒ Newly executed (original or copy) ☐ Unexecuted
- b. ☐ Copy from a prior application (37 CFR 1.63(d)) (for continuation/divisional application only)
- c. ☒ With Power of Attorney ☐ Without Power of Attorney
- d. ☐ DELETION OF INVENTOR(S)
Signed statement attached deleting inventor(s) named in the prior application,
see 37 C.F.R. 1.63(d)(2) and 1.33(b).
5. ☐ Incorporation By Reference (usable if Box 4b is checked)
The entire disclosure of the prior application, from which a copy of the oath or declaration is supplied
under Box 4b, is considered as being part of the disclosure of the accompanying application and is hereby
incorporated by reference therein.
6. ☐ Computer Program in Microfiche (Appendix)
7. ☐ Nucleotide and/or Amino Acid Sequence Submission (if applicable, all must be included)
- a. ☐ Paper Copy
- b. ☐ Computer Readable Copy (identical to computer copy)
- c. ☐ Statement Verifying Identical Paper and Computer Readable Copy

Accompanying Application Parts

8. ☒ Assignment Papers (cover sheet & document(s))
9. ☐ 37 CFR 3.73(B) Statement (when there is an assignee)
10. ☐ English Translation Document (if applicable)
11. ☐ Information Disclosure Statement/PTO-1449 ☐ Copies of IDS Citations
12. ☐ Preliminary Amendment
13. ☒ Acknowledgment postcard
14. ☒ Certificate of Mailing
- ☐ First Class ☒ Express Mail (Specify Label No.): EL739620715 US

UTILITY PATENT APPLICATION TRANSMITTAL
(Large Entity)

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Docket No.

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Total Pages in this Submission

4

Accompanying Application Parts (Continued)

15. ☐ Certified Copy of Priority Document(s) *(if foreign priority is claimed)*

16. ☒ Additional Enclosures *(please identify below):*

Assignee: NEC Corporation

Assignee Residence: Tokyo, Japan

Claim of Priority (in due course)

Request That Application Not Be Published Pursuant To 35 U.S.C. 122(b)(2)

17. ☐ Pursuant to 35 U.S.C. 122(b)(2), Applicant hereby requests that this patent application not be published pursuant to 35 U.S.C. 122(b)(1). Applicant hereby certifies that the invention disclosed in this application has not and will not be the subject of an application filed in another country, or under a multilateral international agreement, that requires publication of applications 18 months after filing of the application.

Warning

An applicant who makes a request not to publish, but who subsequently files in a foreign country or under a multilateral international agreement specified in 35 U.S.C. 122(b)(2)(B)(i), must notify the Director of such filing not later than 45 days after the date of the filing of such foreign or international application. A failure of the applicant to provide such notice within the prescribed period shall result in the application being regarded as abandoned, unless it is shown to the satisfaction of the Director that the delay in submitting the notice was unintentional.

UTILITY PATENT APPLICATION TRANSMITTAL
(Large Entity)

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Docket No.
14309

Total Pages in this Submission
4

Fee Calculation and Transmittal

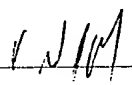
CLAIMS AS FILED

For	#Filed	#Allowed	#Extra	Rate	Fee
Total Claims	4	- 20 =	0	x \$18.00	\$0.00
Indep. Claims	2	- 3 =	0	x \$80.00	\$0.00
Multiple Dependent Claims (check if applicable) <input type="checkbox"/>					\$0.00
BASIC FEE					\$710.00
OTHER FEE (specify purpose)					\$0.00
TOTAL FILING FEE					\$710.00

- ☒ A check in the amount of \$710.00 to cover the filing fee is enclosed.
- ☒ The Commissioner is hereby authorized to charge and credit Deposit Account No. 19-1013/ssmp as described below. A duplicate copy of this sheet is enclosed.
- ☐ Charge the amount of _____ as filing fee.
- ☒ Credit any overpayment.
- ☒ Charge any additional filing fees required under 37 C.F.R. 1.16 and 1.17.
- ☐ Charge the issue fee set in 37 C.F.R. 1.18 at the mailing of the Notice of Allowance, pursuant to 37 C.F.R. 1.311(b).

Dated: February 7, 2001

PJE:ahs
cc:



Signature
Paul J. Esatto, Jr.
Reg. No. 30,749
SCULLY, SCOTT, MURPHY & PRESSER
400 Garden City Plaza
Garden City, NY 11 530

CERTIFICATE OF MAILING BY "EXPRESS MAIL" (37 CFR 1.10)

Applicant(s): Shigeto INUI

Docket No.

14309

Serial No.
UnassignedFiling Date
HerewithExaminer
UnassignedGroup Art Unit
UnassignedInvention: **DIVIDER**

I hereby certify that the following correspondence:

New U.S. Patent Application

(Identify type of correspondence)

is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 in an envelope addressed to: The Assistant Commissioner for Patents, Washington, D.C. 20231

February 7, 2001*(Date)*Janet Giordano*(Typed or Printed Name of Person Mailing Correspondence)*

A handwritten signature in cursive script that reads "Janet Giordano".

*(Signature of Person Mailing Correspondence)*EL739620715US*("Express Mail" Mailing Label Number)*

Note: Each paper must have its own certificate of mailing.



14309/als

NEW PATENT APPLICATION CHECKLIST

YES	NO	DOCUMENT	COMMENTS
✓		Specification to include claims and abstract If non-English spec, don't forget fee.	22
✓		New Patent Application Transmittal Sheet in duplicate If Multiple Claims, be sure to check box.	4/2
✓		Certificate of Express Mail	EL73963.0741
✓		Drawings - Formal or informal - MUST HAVE LABELS ON BACK	7 sheets
✓		Executed Declaration and Power of Attorney If no Declaration being sent - must list all inventors on transmittal sheet.	
✓		Executed Assignment with Recordal Cover Sheet	240 cr.
✓		Claim of Priority <i>in due course</i>	2000-029524
	✓	Small Entity? Need verified statement claiming so.	
		Associate Power of Attorney	
X		Information Disclosure Statement with copies of cited references	
✓		Check or Deposit Account Authorization	710
✓		Postcard	
✓		Dispatch Sheet	